| Index of Claims |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
|                 |  |  |  |  |  |  |  |  |  |  |  |

Application/Control No.

10/766,988

Examiner

Jacob Y. Choi

Applicant(s)/Patent under Reexamination

BRUN ET AL.

Art Unit

2875

| √ | Rejected |
|---|----------|
| _ | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla            | aim                                                                                                                                                | Date                                             |          |                                        |              |          |              |          |                                     |           |  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------|----------------------------------------|--------------|----------|--------------|----------|-------------------------------------|-----------|--|
|                |                                                                                                                                                    |                                                  | T.,      | $\overline{}$                          |              | Г        | Г            |          |                                     |           |  |
| Final          | Original                                                                                                                                           | 8/23/05                                          | 10/18/05 | 3/23/06                                |              |          |              |          | 0                                   |           |  |
|                | 1                                                                                                                                                  | +                                                | N        |                                        |              |          |              |          |                                     |           |  |
|                | 2                                                                                                                                                  | +                                                | N        |                                        |              |          |              |          |                                     | П         |  |
|                | 3                                                                                                                                                  | +                                                | N        |                                        | Г            |          |              |          |                                     | П         |  |
|                | 4                                                                                                                                                  | +                                                | N        |                                        | $\vdash$     |          | $\vdash$     |          |                                     | П         |  |
| -              | 5                                                                                                                                                  | +                                                | 2 2      |                                        | _            | _        | ┢            |          |                                     |           |  |
|                | 1<br>2<br>3<br>4<br>5<br>6                                                                                                                         | +                                                | N        |                                        | $\vdash$     |          | $\vdash$     |          |                                     | Н         |  |
|                | 7                                                                                                                                                  | +                                                | N        |                                        | $\vdash$     | $\vdash$ | Ι.           |          | $\vdash$                            | Н         |  |
|                | 8                                                                                                                                                  | +                                                | N        |                                        | <del> </del> | <u> </u> | -            | $\vdash$ | $\vdash$                            | Н         |  |
|                | 8                                                                                                                                                  | +                                                | N        | -                                      | -            | _        | ┢            | ┢        | _                                   |           |  |
|                | 10                                                                                                                                                 | +                                                | N        | -                                      | -            | -        | $\vdash$     |          |                                     | Н         |  |
| 1              | 11                                                                                                                                                 | +                                                | Ŋ        | =                                      |              |          | ┢            | -        | -                                   | Н         |  |
| 2              | 12                                                                                                                                                 | +                                                | 1        | =                                      | $\vdash$     |          | $\vdash$     | ┝        | -                                   |           |  |
| 2              | 13                                                                                                                                                 | +                                                |          | =                                      | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$                            | Н         |  |
| 3 4            | 14                                                                                                                                                 | +                                                | 1        | =                                      | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$                            | Н         |  |
|                | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34 | +                                                |          | -                                      | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$                            | $\vdash$  |  |
| 5              | 16                                                                                                                                                 | +                                                | N 7 7    | =                                      |              |          | $\vdash$     | $\vdash$ | $\vdash$                            | Н         |  |
| 5<br>6         | 17                                                                                                                                                 | +                                                | 1        | <del> </del> =                         | -            | -        | <del> </del> | $\vdash$ |                                     | $\vdash$  |  |
| 7              | 10                                                                                                                                                 | +                                                | 1        | Ε                                      |              | _        | $\vdash$     | $\vdash$ | $\vdash$                            | $\vdash$  |  |
| 8              | 10                                                                                                                                                 | +                                                | 1        | H                                      |              | -        | ⊢            | $\vdash$ |                                     | $\vdash$  |  |
| 9              | 20                                                                                                                                                 | +                                                | 1        | ۱ <u>-</u>                             |              | -        | $\vdash$     | $\vdash$ | -                                   | $\vdash$  |  |
| 10             | 20                                                                                                                                                 | +                                                | \ \ J    | ⊢                                      |              |          | $\vdash$     | $\vdash$ | $\vdash$                            | $\vdash$  |  |
| 10<br>11<br>12 | 22                                                                                                                                                 | $\vdash$                                         | 1        | =                                      |              |          |              | ├        | -                                   | Н         |  |
| 12             | 22                                                                                                                                                 | +                                                | 1        | =                                      | -            |          | $\vdash$     | $\vdash$ |                                     | Н         |  |
| 12             | 23                                                                                                                                                 | <del>                                     </del> | <u>v</u> | =                                      | -            |          | $\vdash$     | ⊢        | H                                   | Н         |  |
|                | 24                                                                                                                                                 | _                                                | -        | -                                      | -            | -        | ┝            | $\vdash$ | H                                   | Н         |  |
|                | 25                                                                                                                                                 | -                                                | H        |                                        | ⊢            |          | ⊢            | <u> </u> |                                     | -         |  |
|                | 20                                                                                                                                                 | -                                                |          |                                        | $\vdash$     | _        | $\vdash$     |          | -                                   | Н         |  |
|                | 27                                                                                                                                                 | <u> </u>                                         | -        | -                                      | <u> </u>     | _        | <u> </u>     | H        | <u> </u>                            | Н         |  |
|                | 28                                                                                                                                                 | <u> </u>                                         |          | _                                      | <u> </u>     | <u> </u> |              | H        | _                                   | $\vdash$  |  |
|                | 29                                                                                                                                                 | -                                                | -        | $\vdash$                               | <u> </u>     | _        | L            | <u> </u> | <u> </u>                            | $\vdash$  |  |
|                | 30                                                                                                                                                 | _                                                |          |                                        | <u> </u>     | _        | _            | _        | _                                   | $\square$ |  |
|                | 31                                                                                                                                                 | <del> </del>                                     |          |                                        | <u> </u>     | <u> </u> | <u> </u>     | $\vdash$ | $\vdash$                            | Н         |  |
|                | 32                                                                                                                                                 | <del> </del>                                     | ⊢        | <u> </u>                               | <u> </u>     | <u> </u> | $\vdash$     | $\vdash$ | <u> </u>                            | Н         |  |
|                | 33                                                                                                                                                 | <del> </del>                                     | <u> </u> | <u> </u>                               | <u> </u>     |          | <u> </u>     | $\vdash$ | L                                   | Щ         |  |
|                | 34                                                                                                                                                 | <u> </u>                                         |          | <u> </u>                               | <u> </u>     | L        | <u> </u>     | _        |                                     | Ш         |  |
|                | 35<br>36                                                                                                                                           | Ь                                                | ļ        | _                                      | <u> </u>     | <u> </u> | <u> </u>     | <u> </u> |                                     | Ш         |  |
|                | 36                                                                                                                                                 | <u> </u>                                         | ┞        | <u> </u>                               | _            | <u> </u> | _            | <u> </u> | _                                   | Ш         |  |
|                | 37                                                                                                                                                 | <u> </u>                                         |          | <u> </u>                               | _            | _        | _            | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш         |  |
|                | 38<br>39                                                                                                                                           | <u> </u>                                         | <u> </u> | <u> </u>                               | L            | <u> </u> | <u>_</u>     | <u> </u> | L                                   | Ш         |  |
|                | 39                                                                                                                                                 | <u> </u>                                         | <u> </u> | _                                      |              | <u> </u> | _            | <u> </u> | <u> </u>                            | _         |  |
|                | 40                                                                                                                                                 | <u> </u>                                         | <u> </u> | <u> </u>                               |              |          | <u> </u>     | <u> </u> | <u> </u>                            | Щ         |  |
|                | 41                                                                                                                                                 | <u> </u>                                         | <u> </u> | <u>L</u>                               | <u> </u>     | L        | <u>L</u>     | <u> </u> | <u> </u>                            | Щ         |  |
|                | 42                                                                                                                                                 | <u> </u>                                         | <u> </u> | <u> </u>                               | L.           | _        | <u>_</u>     | _        | _                                   | Ш         |  |
|                | 43                                                                                                                                                 | _                                                | <u> </u> | _                                      | L_           | _        | _            |          | L_                                  | Ш         |  |
|                | 44                                                                                                                                                 | _                                                |          | _                                      |              |          | ٠            |          |                                     |           |  |
|                | 45                                                                                                                                                 | <u> </u>                                         |          | <u> </u>                               | _            |          |              |          | _                                   | Ш         |  |
| ļ              | 46                                                                                                                                                 |                                                  | L        | <u> </u>                               |              | L        | _            | L        |                                     | Ш         |  |
|                | 47                                                                                                                                                 |                                                  | <u> </u> | ــــــــــــــــــــــــــــــــــــــ |              |          |              |          | <u> </u>                            |           |  |
|                | 48                                                                                                                                                 |                                                  | L        |                                        |              |          |              |          |                                     |           |  |
|                | 49                                                                                                                                                 |                                                  |          |                                        | L            | L        |              |          |                                     |           |  |
| I              | 50                                                                                                                                                 |                                                  |          |                                        |              | T        | i            | ı , _    | ı -                                 |           |  |

| )la | im      |         |          |         |   | Date | e             |          |          |   | ] | Cla   | aim     |   |        |   | <br>Date | - |        | _ |          |
|-----|---------|---------|----------|---------|---|------|---------------|----------|----------|---|---|-------|---------|---|--------|---|----------|---|--------|---|----------|
|     |         | 2       | 5        | 9       |   |      |               |          |          |   |   |       |         |   |        |   |          |   |        |   |          |
|     | Origina | 8/23/05 | 10/18/05 | 3/23/06 |   |      |               |          |          |   |   | Final | Origina |   |        |   |          |   |        |   |          |
|     | Örig    | 3/2     | 0/1      | 3/2;    |   |      |               |          | -        | l |   | iΞ    | Crig    |   |        |   |          |   |        |   |          |
|     | O       | ۳       | 1        |         |   |      |               |          |          |   |   |       | 0       |   |        |   |          |   |        |   |          |
|     | 1       | +       | Z        |         |   |      |               |          |          |   | ] |       | 51      |   |        |   |          |   |        |   |          |
|     | 3       | +       | 2        |         |   |      | П             | _        |          |   | 1 |       | 52      |   |        |   |          |   |        |   |          |
|     | 3       | +       | Z        |         |   |      |               |          |          |   | 1 |       | 53      | П |        |   |          |   |        |   |          |
|     |         | +       | Z        |         |   |      |               |          | Г        |   | 1 |       | 54      |   |        |   |          |   |        |   |          |
|     | 5       | +       | z        |         |   |      |               |          |          |   |   |       | 55      |   |        |   |          |   |        |   |          |
|     | 6       | +       | 2        |         | П |      |               |          |          |   | 1 |       | 56      |   |        |   |          |   |        |   |          |
|     | 7       | +       | N        |         |   |      | $\overline{}$ |          | Г        |   |   |       | 57      | П |        |   |          |   | -      |   |          |
|     | 8       | +       | Ν        |         |   |      |               |          |          |   |   |       | 58      |   |        |   |          |   |        |   |          |
|     | 9       | +       | Z        |         |   |      |               |          |          |   | ] |       | 59      |   |        |   |          |   |        |   |          |
|     | 10      | +       | Z        |         |   |      |               |          |          |   | 1 |       | 60      |   |        |   |          |   |        |   |          |
|     | 11      | +       | 1        | =       |   |      |               |          |          | Γ | 1 |       | 61      |   |        |   |          |   |        |   |          |
|     | 12      | +       | 1        | =       |   |      |               |          | Ī.       |   | ] |       | 62      |   |        |   |          |   |        |   |          |
|     | 13      | +       | 1        | = .     |   |      |               |          |          |   | ] |       | 63      |   |        |   |          |   |        |   |          |
|     | 14      | +       | 1        | =       |   |      |               |          |          |   | ] |       | 64      |   |        |   |          |   |        |   |          |
|     | 15      | +       | Ν        | -       |   |      |               |          |          |   | ] |       | 65      |   |        |   |          |   |        |   |          |
|     | 16      | +       | 1        | ı       |   |      |               |          |          |   | ] |       | 66      |   |        |   |          |   |        |   |          |
|     | 17      | +       | 1        | =       |   |      |               |          |          |   | ] |       | 67      |   |        |   |          |   |        |   |          |
| _   | 18      | +       | 1        | =       |   |      |               |          |          |   | 1 |       | 68      |   |        |   |          |   |        |   |          |
|     | 19      | +       | 1        | =       |   |      |               |          |          | _ | 1 |       | 69      |   |        |   |          |   |        |   |          |
| _   | 20      | +       | 1        | =       |   |      |               |          |          | Г | 1 |       | 70      |   |        |   |          |   |        |   |          |
| )   | 21      | +       | 1        | ш       |   |      |               |          |          |   | 1 |       | 71      |   |        |   |          |   |        |   |          |
|     | 22      | +       | 1        | =       |   |      |               |          |          |   |   |       | 72      |   |        |   |          |   |        | П |          |
| `   | 23      | +       | 1        | =       |   |      |               |          |          |   | 1 |       | 73      |   |        |   |          |   |        | П |          |
|     | 24      |         |          |         |   |      |               |          | Г        |   |   |       | 74      |   |        |   |          |   |        |   |          |
| _   | 25      |         |          |         |   |      |               |          |          |   | 1 |       | 75      |   |        |   |          |   |        |   |          |
|     | 26      |         |          |         |   |      |               |          |          |   |   |       | 76      | П |        |   |          |   |        |   |          |
| _   | 27      |         |          |         |   |      |               |          |          |   |   |       | 77      |   |        | • |          |   |        |   |          |
|     | 28      |         |          |         |   |      |               |          |          |   |   |       | 78      |   |        |   |          |   |        |   |          |
|     | 29      |         |          |         |   |      |               |          |          |   | 1 |       | 79      |   |        |   |          |   |        |   |          |
|     | 30      |         | _        |         |   |      | П             |          |          |   |   |       | 80      |   |        |   |          |   |        |   |          |
|     | 31      |         |          |         |   |      |               |          |          |   | 1 |       | 81      |   |        |   |          |   |        |   |          |
|     | 32      |         |          |         |   |      | $\vdash$      |          | Г        | Г |   |       | 82      |   |        |   |          |   |        | П |          |
|     | 33      |         |          |         |   |      | П             |          |          | Г | 1 |       | 83      | H |        |   |          |   | $\Box$ | П |          |
|     | 34      |         |          |         |   |      | П             |          |          | Г |   |       | 84      |   |        |   |          |   | $\Box$ | П |          |
|     | 35      |         |          |         |   | l    |               | П        |          |   | 1 |       | 85      |   |        |   |          |   |        | П |          |
|     | 36      | П       |          |         | Г |      |               |          |          |   |   |       | 86      |   |        |   |          |   |        | П |          |
|     | 37      |         |          |         |   |      | Ī             |          |          | Г |   |       | 87      |   |        |   |          |   |        | П |          |
|     | 38      |         |          |         | Г |      |               |          | Г        |   | 1 |       | 88      |   | $\neg$ |   |          |   |        |   |          |
|     | 39      |         |          |         |   |      |               |          |          |   | 1 |       | 89      |   |        |   |          |   |        |   |          |
|     | 40      |         |          |         |   |      |               | ·        | $\Gamma$ |   | 1 |       | 90      |   |        |   |          |   |        |   |          |
|     | 41      |         |          |         |   |      | П             |          |          |   | 1 |       | 91      |   | $\neg$ |   |          |   |        | П |          |
|     | 42      |         |          |         |   |      |               |          |          |   | 1 |       | 92      |   |        |   |          |   |        |   |          |
|     | 43      |         |          |         |   |      |               |          |          |   | 1 |       | 93      |   |        |   |          |   |        |   |          |
|     | 44      |         |          |         |   |      | •             |          |          |   | 1 |       | 94      |   |        |   |          |   |        |   |          |
|     | 45      |         |          |         | Г |      |               |          |          |   | 1 |       | 95      |   |        |   |          |   |        |   |          |
|     | 46      |         |          |         |   |      |               |          |          | Г | 1 |       | 96      |   |        |   |          |   |        | П |          |
|     | 47      |         |          |         |   | T    |               |          |          |   | 1 |       | 97      |   |        |   |          |   |        | П | Ţ        |
|     | 48      |         |          |         |   |      |               |          | $\vdash$ |   | 1 |       | 98      |   |        |   |          |   |        |   | <u> </u> |
|     | 49      |         |          |         |   |      |               |          |          | Γ |   |       | 99      |   |        |   |          |   |        | П |          |
| T   | 50      |         |          |         |   | Г    |               | ,-       |          | Г | 1 |       | 100     |   |        |   |          | - | Т      | П |          |
|     |         |         | _        |         | · | _    | _             | <u> </u> |          |   | • |       |         |   |        |   | <br>_    |   | Ь      | ш |          |

| Cla          | aim                                                         | Date     |          |              |                                              |                |                |              |          |                 |  |
|--------------|-------------------------------------------------------------|----------|----------|--------------|----------------------------------------------|----------------|----------------|--------------|----------|-----------------|--|
|              |                                                             |          |          |              |                                              |                |                |              |          |                 |  |
| Final        | Original                                                    |          |          |              |                                              |                |                |              |          |                 |  |
|              | 101<br>102<br>103                                           | Г        | Г        |              |                                              |                |                |              |          | П               |  |
|              | 102                                                         |          |          |              |                                              |                |                |              |          |                 |  |
|              | 103                                                         |          |          |              |                                              |                |                |              |          |                 |  |
|              | 104<br>105<br>106                                           |          | L        |              |                                              |                |                |              | <u> </u> |                 |  |
|              | 105                                                         | _        |          | _            |                                              |                |                | _            |          |                 |  |
|              | 106                                                         | _        |          | _            | _                                            |                |                | L            | - 1      | Ш               |  |
|              | 107<br>108                                                  | <u> </u> | L        | ļ            | <u> </u>                                     | <b>.</b>       |                |              |          | Ш               |  |
|              | 108                                                         | ļ        |          | <u> </u>     | _                                            | ļ              |                |              |          | Н               |  |
|              | 109                                                         | <u> </u> |          | _            | <u> </u>                                     | _              |                | H            | _        | Н               |  |
|              | 110                                                         | ⊢        | <u> </u> | <u> </u>     | ⊢                                            | _              |                | <u> </u>     | _        | $\vdash$        |  |
|              | 111                                                         | $\vdash$ | <u> </u> | -            | $\vdash$                                     | $\vdash$       | <u> </u>       | <del> </del> | -        | $\vdash \vdash$ |  |
| <del> </del> | 112                                                         | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$                                     | $\vdash$       | <u> </u>       | $\vdash$     | -        | $\vdash\vdash$  |  |
|              | 109<br>110<br>111<br>112<br>113<br>114<br>115<br>116<br>117 | $\vdash$ | $\vdash$ | -            | -                                            |                |                | $\vdash$     |          | $\vdash \vdash$ |  |
|              | 115                                                         |          | -        | ┢            |                                              | -              |                |              |          | Н               |  |
|              | 116                                                         | $\vdash$ | $\vdash$ | $\vdash$     | Н                                            | Т              |                | Н            | $\vdash$ | H               |  |
|              | 117                                                         |          | _        | -            | -                                            |                |                |              |          | П               |  |
|              | 118                                                         |          |          |              |                                              |                |                |              |          | П               |  |
|              | 118<br>119<br>120<br>121<br>122                             |          |          |              |                                              |                |                |              | -        |                 |  |
|              | 120                                                         |          |          |              |                                              |                |                |              |          |                 |  |
|              | 121                                                         |          |          |              |                                              |                |                |              |          |                 |  |
|              | 122                                                         |          |          |              |                                              |                |                |              |          |                 |  |
|              | 123<br>124<br>125                                           |          |          |              |                                              |                |                |              |          |                 |  |
| <u></u>      | 124                                                         | _        |          | _            |                                              |                |                |              |          |                 |  |
|              | 125                                                         |          |          |              |                                              |                |                |              | _        | Щ               |  |
|              | 126                                                         | Ŀ        |          | _            |                                              |                | <u> </u>       |              |          |                 |  |
|              | 127                                                         | $\vdash$ | _        | _            |                                              |                | _              | _            | _        | Ш               |  |
|              | 128                                                         | <u> </u> | <u> </u> | <u> </u>     | -                                            |                |                | H            | _        |                 |  |
|              | 126<br>127<br>128<br>129<br>130<br>131<br>132               | H        | Ļ.       | -            | -                                            | -              | -              |              | -        | $\vdash$        |  |
|              | 131                                                         | ⊢        | <u> </u> | $\vdash$     | -                                            |                | -              | -            | $\vdash$ | Н               |  |
|              | 132                                                         | ┢        | -        | <del> </del> |                                              |                | ⊢              | _            | ├─       | Н               |  |
| <u> </u>     | 133                                                         | $\vdash$ | _        | $\vdash$     | -                                            | -              | ┢              | -            | -        | Н               |  |
|              | 134                                                         | $\vdash$ | $\vdash$ | $\vdash$     | _                                            |                | ┢              |              |          | H               |  |
|              | 135                                                         | $\vdash$ |          | -            |                                              |                | $\vdash$       | $\vdash$     | Т        | H               |  |
|              | 136                                                         | $\vdash$ |          |              |                                              |                |                |              |          | $\Box$          |  |
|              | 137                                                         |          |          | _            |                                              |                |                |              |          |                 |  |
|              | 137<br>138                                                  | L.       |          |              |                                              |                |                |              |          |                 |  |
|              | 139                                                         |          |          |              |                                              |                |                |              | 匚        |                 |  |
|              | 140                                                         | oxdot    | L        | سَا          | $oxed{\Box}$                                 | L.             | L              |              |          | Ш               |  |
|              | 141                                                         | <u> </u> |          | L            | <u> </u>                                     | Ш              | <u>L</u>       |              |          | Ш               |  |
|              | 142                                                         | Ŀ        | <u> </u> | <u> </u>     | <u>                                     </u> | _              | _              |              |          | Щ               |  |
|              | 143                                                         | <u> </u> |          | <u> </u>     | <u> </u>                                     | L_             | <u> </u>       | <u> </u>     | _        | Щ               |  |
|              | 144                                                         | <u> </u> | <u> </u> | <u> </u>     | <b> </b>                                     | <del> </del> — | <del> </del>   | <b> </b>     | <u> </u> | $\vdash \vdash$ |  |
|              | 145                                                         | <u> </u> |          | <u> </u>     | <u> </u>                                     | $\vdash$       | <del>  -</del> |              | -        | $\vdash \vdash$ |  |
| <u> </u>     | 146                                                         | <u> </u> | -        | <u> </u>     | -                                            | $\vdash$       | ⊢              | -            | <u> </u> | $\vdash \vdash$ |  |
| <u> </u>     | 147                                                         | $\vdash$ | <u> </u> |              | <u> </u>                                     |                | <del> </del>   | -            | -        | $\vdash$        |  |
| <u> </u>     | 148<br>149                                                  | ├        | $\vdash$ | <del> </del> | <del> </del>                                 | $\vdash$       | ├-             | $\vdash$     | -        | $\vdash \dashv$ |  |
| <u> </u>     | 150                                                         |          | $\vdash$ | ├            | -                                            | ⊢              | ├              | -            | -        | H               |  |
| L            | LIDU                                                        | L        | L        | Щ            | Ц.                                           | L              | Щ              |              |          | لــــا          |  |